

MONITORING REFRIGERANT CHARGE

ABSTRACT OF THE DISCLOSURE

An air conditioning, heating or refrigeration system includes a controller that automatically determines if refrigerant amount is above or below the desired amount within the system. In one example, a sensor measures the temperature difference between sub-cooled liquid and saturated condensing temperature and provides information to the controller. The controller determines a variance between the measured and an expected value. If that variance exceeds a selected threshold, the controller automatically determines that the amount of refrigerant in the system is outside of an acceptable range.

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